

(Pages : 2)

L – 6387

Reg. No. : .....

Name : .....

**First Semester M.Sc. Degree Examination, August 2021**

**Home Science**

**X D – Food and Nutrition**

**HS 213 D – FOOD MICROBIOLOGY AND SANITATION**

**(2018 Admission Onwards)**

Time : 3 Hours

Max. Marks : 75

PART – I

**All** questions carry equal marks. No answer should exceed 4 pages.

1. (a) Elaborate on the extrinsic factors affecting the growth of microbes.

OR

(b) Describe the sources of contamination in milk, spoilage and prevention.

2. (a) Explain the strategies that can be adopted to prevent food hazards of microbial origin.

OR

(b) Write an essay on FSSAI as an enforcement agency in India.

**(2 × 15 = 30 Marks)**

P.T.O.



PART – II

**All** questions carry equal marks. No answer should exceed **4** pages.

3. (a) Discuss the microbes in plants and animals.

OR

- (b) Describe the principles of HACCP as a Food safety Management System.

4. (a) Write an essay on the methods that can be adopted to prevent the spoilage of cereals.

OR

- (b) Explain the growth curve of bacteria.

**(2 × 10 = 20 Marks)**

PART – III

5. Write any **five** of the following each not exceeding **2** pages.

- (a) Effect of moisture content on the growth of microorganisms.  
(b) Botulism  
(c) Techniques to minimize pesticides residues in Fruits and Vegetables  
(d) Farm to Fork Approach in Food safety  
(e) Prebiotics  
(f) Nanothermosonication  
(g) FDA.

**(5 × 5 = 25 Marks)**

